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Appl. No. 09/828,462
Amendment and Response to Office Action
May 1, 2006

Attny Docket No. 3184

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1. (Previously Presented) An ink jet print engine with Internet connectivity, comprising:
 printer hardware and software providing a functioning printer, including
 a piezoelectric printhead for dispensing ink onto a substrate; and
 Internet hardware and software for providing the print engine with Internet
 connectivity, including a microprocessor communicating with the
 printer hardware and software, the microprocessor comprising an embedded
 server having a valid IP address, said microprocessor also containing
 Ethernet MAC and system controllers.
2. (Original) The ink jet print engine of Claim 1, wherein the printer software stores
 one or more valid IP addresses of servers corresponding to maintenance or service
 centers for one or more components of the print engine.
3. (Previously Presented) The ink jet print engine of Claim 1 wherein said printer
 hardware or software is capable of providing diagnostic information concerning said
 printer and which is transmittable over the Internet.
4. (Cancelled).
5. (Currently Amended) The ink jet print engine of Claim 1, wherein the system
 controllers include memory, DMA, interrupts and timers.

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6. (Previously Presented) The ink jet print engine of Claim 1, wherein said microprocessor contains cache, I/O, real time operating systems, device driver software and communications protocol software.
7. (Original) The ink jet print engine of Claim 1, wherein the printer comprises integrated networking software.
8. (Original) The ink jet print engine of Claim 1, wherein the microprocessor uses an RTOS operating system.
9. (Currently Amended) A print engine with Internet connectivity, comprising:

 printer hardware and software providing a functioning printer for dispensing information onto a substrate including a piezoelectric printhead for dispensing ink onto a substrate; and

 + Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded Internet server having a valid IP address, said microprocessor containing Ethernet MAC and system controllers; said microprocessor capable of reporting at least diagnostic information about said printer hardware over the Internet.

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10. (Currently Amended) A printer device comprising:

printer hardware and software including a piezoelectric printhead for dispensing ink onto a substrate for performing a print function and printer diagnostics;

a processor contained in said printer device, said processor containing Ethernet MAC and system controllers;

Internet connection hardware and software, said Internet connection hardware and software presenting a valid Internet address for said printer device to the Internet;

said printer software also reporting printer diagnostics over the Internet using said Internet address.

11. (Cancelled).

12. (Previously Presented) The printer device of Claim 10, wherein said microprocessor gathers statistics concerning said printer device.

13. (Previously Presented) The printer device of Claim 12 further comprising said Internet connection hardware and software reporting said statistics over the Internet.

14. (Previously Presented) The printer device of Claim 10, further comprising said printer device acting as an independent Internet server.

15. (Previously Presented) The printer device of Claim 10, wherein said Internet connection hardware and software uses TCP/IP protocols.